70031

Access DB# __

SEARCH REQUEST FORM

Scientific and Technical Information Center

7 -	1 1/		de	**
Requester's Full Name:	IVACK	Examiner # : 70 400 P	ate: 7///02	
Art Unit: 16/4 Phone N	umber 30 8 9703		043558	
Mail Box and Bldg/Room Location:	Resu	Its Format Preferred (circle): P.	APER DISK E-MAIL	
If more than one search is submi		e searches in order of need	· ********	
Please provide a detailed statement of the s	search topic, and describe a	s specifically as possible the subject	matter to be searched.	1
Include the elected species or structures, ke utility of the invention. Define any terms t				
known. Please attach a copy of the cover sh			ations, authors, etc., ii	
	in PP Empl	1	·	
Inventors (please provide full names):	*	Elfi Biederman	n	
TAX Husinann				
\.**	- lac			
Earliest Priority Filing Date: 4/2	LL 170	_ ,		
For Sequence Searches Only Please includ	e all pertinent information (parent, child, divisional, or issued paten	t numbers) along with the	
appropriate serial number.	malled a	Preducina side	i pllesta (addirs	ie l
Planal Sparch both	METHORS Y	() warrang sin	7	
TOMO DEL TOTAL	t Lin al	IMM MAIL IN DE LLOS RAY	essuip MM:5	
**For Sequence Searches Only* Please included appropriate serial number. Please Search both Actions to which My bunder of administration of the property of	Matte or	MANAGER AND STATE OF	Tel oc	
M. Mon J. Co.) a rembolizEd	' NANIMA	
DAUBLIALAD DAMW	JUMA	1) of make more		
May July and a color	, 0,	1: audid a As	2) compounds	ς
DO NATIVI	Lu as nice	ofmamiliae, ve	7	
Etaruin er och	A	~		
\sim	-COH	and all a n	10 100	
tirmulae XI	- C-01	TCHZ-OH FTC	.00	
1 1	L-NZ	The same of the sa	No	
EN .		i de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela comp		
	ope	W	epen	
	~ - MI. 7		<u> </u>	7 8.0
12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 2 - 0 - 1-	- 16-N+		
	Vai	IL II	111	T L
	10	1 1/0		!
- h		L 19	L W	
L-t		•		
	X A Y	· · · · · · · · · · · · · · · · · · ·	por.	
IND SWO	SIMINIS ROW	DURANA IV MININ	21.	
STAFF USE ONLY	**************************************	Vendors and cost where	annlinghla IIIII	.e. (
The second of th	Type of Search	STN VEHIOUS AND COST WHEN	application / FF / S	3
Searcher: POINT OF CONTACT:	NA Sequence (#)		•••	
Searcher Phone #: FAUL SCHOLWIZ IECHNICAL INFO. SPECIALIS		Dialog		
Searcher Location: <u>CM1 6B06 TEL (703) 305-19</u>	54Structure (#)	Questel/Orbit		
Date Searcher Picked Up:	Bibliographic	Dr.Link	<u> </u>	
`Date Completed:	Litigation	Lexis/Nexis		
Searcher Prep & Review Time:	Fulltext	Sequence Systems	/ _	
Clerical Prep Time:	Patent Family	WWW/Internet		
Online Time:	Other	Other (specify)		
PTO 1500 (9.01)		s also me so the sale	VALLABIT AC	\H\#
PTO-1590 (8-01)		A	VAILABLE CC	ノイギー
				p . 01

Generate Collection

Print

Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: JP 2000512652 W, WO 9748397 A1, DE 19624668 A1, AU 9732624 A , ZA 9705443 A, EP 912176 A1

L5: Entry 1 of 1

File: DWPI

Sep 26, 2000

DERWENT-ACC-NO: 1998-100698

DERWENT-WEEK: 200051

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Use of pyridyl alkane, pyridyl alkene and/or pyridyl alkyne acid amide - as

cytostatic, immunomodulatory or immuno-suppressive agents

INVENTOR: BIEDERMANN, E; HASMANN, M; LOSER, R; RATTEL, B; REITER, F; SCHEIN, B;

SEIBEL, K; VOGT, K; LOESER, R

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KLINGE PHARMA GMBH & CO KG

CHEH

KLINGE PHARMA GMBH

CHEH

PRIORITY-DATA: 1996DE-1024668 (June 20, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000512652 W	September 26, 2000		286	A61K031/44
WO 9748397 A1	December 24, 1997	E	268	A61K031/44
DE 19624668 A1	February 19, 1998		000	A61K031/44
AU 9732624 A	January 7, 1998		000	A61K031/44
ZA 9705443 A	April 29, 1998		256	A61K000/00
EP 912176 A1	May 6, 1999	E	000	A61K031/44

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000512652W	June 20, 1997	1997WO-EP03244	
JP2000512652W	June 20, 1997	1998JP-0502317	
JP2000512652W		WO 9748397	Based on
WO 9748397A1	June 20, 1997	1997WO-EP03244	
DE 19624668A1	June 20, 1996	1996DE-1024668	
AU 9732624A	June 20, 1997	1997AU-0032624	
AU 9732624A		WO 9748397	Based on
ZA 9705443A	June 19, 1997	1997ZA-0005443	
EP 912176A1	June 20, 1997	1997EP-0928260	
EP 912176A1	June 20, 1997	1997WO-EP03244	
EP 912176A1		WO 9748397	Based on

INT-CL (IPC): $\underline{A61}$ \underline{K} $\underline{0/00}$; $\underline{A61}$ \underline{K} $\underline{31/55}$; $\underline{A61}$ \underline{K} $\underline{31/44}$; $\underline{A61}$ \underline{K} $\underline{31/445}$; $\underline{A61}$ \underline{K} $\underline{31/47}$; $\underline{A61}$ \underline{K} $\underline{31/55}$; $\underline{A61}$ \underline{K} $\underline{31/55}$; $\underline{A61}$ \underline{K} $\underline{31/675}$

ABSTRACTED-PUB-NO: WO 9748397A BASIC-ABSTRACT:

Use of one or more pyridine derivatives of formula (I), and its stereoisomers, mixtures and acid addition salts, for preparation of medicaments for cytostatic, immunomodulatory and/or immunosuppressive treatment, is new. R1 = H, halo, CN, CF3, OH, BZO, H2NCO, COOH, Ph, PhO, PhS, PyO, PyS, T, hydroxyalkyl, TO, TO-CO-O, TS, Cy, CyO, CyS, TOOC or TNHCO; R2 = H, halo, CN, OH, CF3, BzO, T, TO or RO; R3 = H, halo, T, CF3 or hydroxyalkyl; R4 = H, T, Cy or TO; k = 0 or 1; A = alkylene, 1,2-cyclopropylene, alkenylene, alkadienylene, 1,3,5-hexatrienylene or ethynylene; D = alkylene, alkenylene (in which the double bond can also be to ring E) or alkynylene; E = a group of formula (i) or (ii), each of which may include a double bond; n, p = 0, 1, 2 or 3, provided that n + p is not more than 4; q = 2 or 3; R11 = H, T, OH, HOCH2, COOH or TOCO; R12 = H, T, or an oxo group adjacent to the N atom; G = H, G1, G2, G3, G4 or G5; G1 = (CH2)r-(CR14R15)s-R13; G2 =C(0)-(CH2)r-(CR14R15)s-R13 or C(0)-(CH2)r-NR13R15; G3 = SO2-(CH2)rR13; G4 = C(0)-(CH2)r-(CH2P(=0) Ar1Ar2; G5 = COR16; r = 0, 1, 2 or 3; s = 0 or 1; R13, R14 = H, T, cycloalkyl, a saturated, 5-7 membered heterocycle, Bz, Ph or monocyclic aromatic 5-6 membered heterocycle; R15 = H, OH, Me, Bz, Ph, monocyclic aromatic 5-6 membered heterocycle; Ar1, Ar2 = Ph, Py or naphthyl; R16 = CF3, TO or BzO; T = alkyl; Cy= cycloalkyl; Ph = phenyl; Bz = benzyl; Py = pyridyl; R = alkanoyl.

USE - (I) may be used, optionally in combination with other active agents in treatment of, e.g. tumours, psoriasis, autoimmune diseases or transplant rejection. Administration of (I) is, e.g. oral, parenteral, topical, transdermal or by inhalation.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PYRIDYL ALKANE PYRIDYL ALKENE PYRIDYL ALKYNE ACID AMIDE CYTOSTATIC IMMUNOMODULATORY IMMUNO SUPPRESS AGENT

DERWENT-CLASS: B02 B03

CPI-CODES: B07-D04; B14-G02C; B14-G02D; B14-H01; B14-N17C;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

B615 B701 B720 B743 B815 B831 C216 C316 D010 D011

D012 D013 D019 D020 D029 D040 D049 D621 D631 E470

F010 F011 F012 F013 F014 F015 F016 F019 F020 F021

```
F029 F431 F432 G001 G002 G010 G011 G012 G013 G019
G020 G021 G022 G029 G030 G033 G039 G040 G050 G100
G111 G112 G113 G221 G299 G530 G553 G563 G599 H100
H101 H102 H103 H121 H122 H141 H161 H181 H182 H183
H401 H402 H403 H404 H405 H421 H481 H482 H483 H484
H521 H522 H581 H582 H583 H584 H592 H598 H600 H601
H608 H609 H621 H622 H623 H681 H682 H683 H684 H685
H689 H713 H715 H716 H720 H721 H722 H723 H731 J0
J011 J012 J013 J014 J111 J112 J211 J212 J221 J222
     J311 J351 J361 J362 J371 J372 J373 J411 J581
J582 J583 K353 K399 K442 K499 K742 K830 K850 K899
L142 L145 L199 L472 L640 L699 L930 L941 L943 M113
M115 M116 M119 M121 M122 M123 M124 M125 M126 M129
M131 M132 M135 M136 M139 M141 M142 M143 M144 M149
M150 M210 M211 M212 M213 M214 M215 M216 M220 M221
M222 M223 M224 M225 M226 M231 M232 M233 M240 M262
M271 M272 M273 M280 M281 M282 M283 M311 M312 M313
M314 M315 M316 M320 M321 M322 M323 M331 M332 M333
M334 M340 M342 M343 M344 M349 M352 M353 M362 M371
M372 M373 M381 M382 M383 M391 M392 M393 M411 M412
M413 M510 M511 M512 M513 M520 M521 M522 M523 M530
M531 M532 M533 M540 M541 M542 M543 M630 M640 M650
M781 M903 M904 P433 P434 P632 P633
Ring Index
01651 08105 44938 53872
Markush Compounds
199809-28601-U
```

Chemical Indexing M2 *02*

```
Fragmentation Code
B615 B701 B720 B731 B742 B815 B831 C316 D011 D013
D019 D022 D220 D300 D420 D670 E130 F011 F012 F013
F014 F015 F019 F111 F410 F431 F432 F433 F499 F653
G010 G011 G013 G014 G019 G020 G021 G030 G031 G100
G111 G112 G221 G310 G331 G360 G563 H102 H121 H122
H161 H181 H182 H201 H202 H211 H212 H401 H481 H521
H522 H523 H592 H601 H602 H608 H609 H621 H641 H642
H716 H721 H722 H724 J0
                         J011 J012 J013 J014 J131
     J311 J312 J331 J371 J372 J373 J561 K353 K742
J3
L432 L463 L499 L941 L943 M111 M121 M123 M129 M132
M133 M135 M143 M144 M150 M210 M211 M212 M213 M214
M231 M233 M240 M262 M271 M272 M273 M280 M281 M282
M311 M312 M313 M314 M315 M321 M322 M323 M331 M332
M342 M343 M344 M349 M372 M373 M381 M383 M391 M392
M393 M411 M412 M413 M510 M511 M512 M522 M523 M530
M531 M532 M533 M540 M541 M630 M640 M650 M781 M903
M904 P433 P434 P632 P633 V411
Ring Index
03697 12761
Markush Compounds
```

SECONDARY-ACC-NO:

199809-28602-U

CPI Secondary Accession Numbers: C1998-033197

Full Title Citation Front Review Drawl Desc Clip Img Image	o Classification Date Re	ference Sequences	Attachments Claims	KWC .		
	Generate Collection	Print				
	Terms					
(AU-9732624-\$.DID.)]	.]		

Display Format: - Change Format

Previous Page Next Page

WEST

Number of documents to display is limited to 10 for FULL format

Generate Collection

Print

Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: JP 2000512651 W, WO 9748695 A1, DE 19624704 A1, <u>AU 9733420 A</u>, ZA 9705439 A, EP 934309 A1

L3: Entry 1 of 1

File: DWPI

Sep 26, 2000

DERWENT-ACC-NO: 1998-100704

DERWENT-WEEK: 200051

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: New pyridyl alkane acid amide compounds - useful as cytostatic and

immunosuppressive agents

INVENTOR: BIEDERMANN, E; HASMANN, M; LOSER, R; RATTEL, B; REITER, F; SCHEIN, B;

SEIBEL, K; VOGT, K; LOESER, R

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KLINGE PHARMA GMBH & CO KG

CHEH

PRIORITY-DATA: 1996DE-1024704 (June 20, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000512651 W	September 26, 2000		248	C07D401/12
WO 9748695 A1	December 24, 1997	E	219	C07D401/12
DE 19624704 A1	January 8, 1998		101	C07D401/12
AU 9733420 A	January 7, 1998		000	C07D401/12
ZA 9705439 A	April 29, 1998		214	C07D000/00
EP 934309 A1	August 11, 1999	E	000	C07D401/12

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000512651W	June 20, 1997	1997WO-EP03243	
JP2000512651W	June 20, 1997	1998JP-0502316	
JP2000512651W		WO 9748695	Based on
WO 9748695A1	June 20, 1997	1997WO-EP03243	
DE 19624704A1	June 20, 1996	1996DE-1024704	
AU 9733420A	June 20, 1997	1997AU-0033420	
AU 9733420A		WO 9748695	Based on
ZA 9705439A	June 19, 1997	1997ZA-0005439	
EP 934309A1	June 20, 1997	1997EP-0929240	
EP 934309A1	June 20, 1997	1997WO-EP03243	
EP 934309A1		WO 9748695	Based on

INT-CL (IPC): $A61 \times 31/436$; $A61 \times 31/436$; $A61 \times 31/437$; $A61 \times 31/44$; $A61 \times 31/447$; $A61 \times 31/447$; $A61 \times 31/502$;

ABSTRACTED-PUB-NO: WO 9748695A BASIC-ABSTRACT:

Pyridine derivatives of formula (I), and their stereoisomers, mixtures and acid addition salts are new: R1 = H, halo, CN, CF3, OH, BzO, H2NCO, COOH, Ph, PhO, PhS, PyO, PyS, T, U, V, hydroxyalkyl, TO, UO, VO, RO, TOCOO, TS, US, VS, Cy, CyO, CyS, TOOC, TNHCO, T2NCO or NR5R6; R2 = H, halo, CN, OH, CF3, BzO, T, TO or RO; or R1 + R2, when they are adjacent, may form a bridge of formula (CH2)4, (CH=CH)2 or CH2OCR7R8O; R5, R6 = H, T, U or V; R7, R8 = H or T; R3 = H, halo, T, CF3 or hydroxyalkyl; R4 = H, OH, BzO T, U, V, Cy or TO; k = 0 or 1; A = alkylene(optionally substituted), 1,2-cyclopropylene; or alkylene; D = alkylene (optionally substituted), alkenylene (containing at least 2 C atoms and optionally substituted), in which the double bond can also be to ring E; alkynylene (containing at least 3C atoms and optionally substituted), or alkylene, alkenylene (containing at least 2 C atoms) or alkynylene (containing at least 2 C atoms), in which 1-3 methylene units are each isosterically replaced by O, S, NR10, CO, SO or SO2; R10 = H, T, U, V, acyl, or TSO2; E = a group of formula (i) or (ii), each of which may include a double bond: n , p = 0-3, provided that n + p at most 4; q = 2 or 3; R11 = H, T, OH, HOCH2, COOH or TOCO; R12 = H, T, or an oxo group adjacent the N atom; or R11 + R12 may form a 1-5C alkylene bridge; G = e.g. H, (CH2)r(CR14R15)sR13 (G1), SO2(CH2)rR13(G3), P(=0)Ar1Ar2 (G4), or COR16 (G5); r = 0-3; s = 0 or 1; R13, R14 = e.g. H; T; U (containing at least 3 C atoms); V (containing at least 3 C atoms); cycloalkyl; a saturated, 5-7 membered heterocycle, Bz; Ph; a monocyclic aromatic 5-6 membered heterocycle, an anellated bi- or tricyclic aromatic or partially hydrated carbocyclic or heterocyclic ring system etc.; R15 = e.g. H, OH, Me, Bz, Ph; a monocyclic aromatic 5-6 membered heterocycle, an anellated bi- or tricyclic aromatic or partially hydrated carbocyclic ring system, or NR13R15 = a nitrogen heterocycle linked via the N atom; Arl, Ar2 = Ph, Py or naphthyl; R16 = CF3, TO, UO or BzO; T = alkyl; U = alkenyl; V = alkynyl; Cy = cycloalkyl; Bz = benzyl; Py = pyridyl; R = alkanoyl; any aryl residues and/or aromatic ring systems in R1, R2, R4, R13-R16, NR13R15, Arl and Ar2 are optionally substituted.

USE - (I) are useful as cancerostatic, cytostatic agents or immunosuppressive agents. They may be used, optionally in combination with other active agents, in treatment of, e.g., tumours, psoriasis, autoimmune diseases or transplant rejection.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW PYRIDYL ALKANE ACID AMIDE COMPOUND USEFUL CYTOSTATIC

IMMUNOSUPPRESSIVE AGENT DERWENT-CLASS: B02 B03

CPI-CODES: B07-D04; B07-D05; B14-G02; B14-G02C; B14-G02D; B14-H01;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

B615 B701 B712 B720 B731 B815 B831 C316 D011 E130 E520 F011 F012 F013 F014 F015 F019 F431 F433 F499

G010 G011 G019 G020 G021 G031 G100 G221 G310 H121

Н161 Н181 Н201 Н211 Н401 Н481 Н601 Н602 Н608 Н609

H621 H622 H642 H682 H684 J0 J011 J012 J3 J311 J331 J371 J372 J561 K353 K830 L432 M113 M121 M129

M132 M139 M143 M148 M149 M150 M210 M211 M212 M214

M215 M216 M231 M262 M271 M273 M280 M281 M311 M312

M314 M315 M321 M322 M332 M342 M343 M344 M349 M352

M371 M372 M373 M391 M392 M411 M412 M413 M510 M511

M521 M522 M523 M530 M531 M532 M540 M630 M640 M650

M710 M800 M903 M904 P433 P633

Ring Index

03672

Markush Compounds

199809-29002-N

Chemical Indexing M2 *02*

Fragmentation Code

B615 B701 B712 B720 B731 B815 B831 C316 D011 E130 E520 F011 F012 F013 F014 F015 F019 F431 F433 F499

G010 G011 G019 G020 G021 G031 G100 G221 G310 H121

H161 H181 H201 H211 H401 H481 H601 H602 H608 H609

H621 H622 H642 H682 H684 J0 J011 J012 J3 J311

J331 J371 J372 J561 K353 K830 L432 M113 M121 M129 M132 M139 M143 M148 M149 M150 M210 M211 M212 M214

M215 M216 M231 M262 M271 M273 M280 M281 M311 M312

M314 M315 M321 M322 M332 M342 M343 M344 M349 M352

M371 M372 M373 M391 M392 M411 M412 M413 M510 M511

M521 M522 M523 M530 M531 M532 M540 M630 M640 M650

M710 M800 M903 M904 P433 P633

Ring Index

03672

Markush Compounds

199809-29003-N

Chemical Indexing M2 *03*

Fragmentation Code

B615 B701 B720 B731 B743 B815 B831 C000 C216 C316

D010 D011 D012 D013 D014 D016 D019 D020 D023 D029

D040 D049 D160 D631 E470 F010 F011 F012 F013 F014 F015 F016 F017 F018 F019 F020 F021 F029 F423 F433

F443 F450 G001 G002 G010 G011 G012 G013 G019 G020

G021 G022 G029 G030 G033 G039 G040 G050 G100 G111 G112 G113 G200 G221 G299 G530 G553 G563 H100 H102

```
H103 H121 H122 H141 H161 H162 H181 H182 H213 H401
H402 H403 H404 H405 H421 H481 H482 H483 H484 H521
H561 H581 H582 H583 H584 H592 H596 H598 H600 H601
H608 H609 H621 H681 H682 H683 H684 H685 H689 H713
H715 H716 H721 H722 H723 H731 J0
                                   J011 J012 J013
J014 J111 J211 J212 J311 J321 J331 J351 J352 J361
J362 J371 J372 J373 J411 J521 J581 J582 K130 K353
K399 K442 K499 K741 K742 K830 K850 K899 L431 L432
L463 L560 L640 L699 L941 M113 M115 M116 M119 M121
M122 M123 M124 M125 M126 M129 M131 M132 M135 M136
M139 M142 M143 M144 M149 M150 M210 M211 M212 M213
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226
M231 M232 M233 M240 M262 M263 M271 M272 M273 M280
M281 M282 M283 M311 M312 M313 M314 M315 M316 M320
M321 M322 M323 M331 M332 M333 M334 M340 M342 M343
M344 M349 M352 M353 M362 M371 M372 M373 M381 M382
M383 M391 M392 M393 M411 M412 M413 M510 M511 M512
M513 M520 M521 M522 M523 M530 M531 M532 M533 M540
M541 M542 M543 M630 M640 M650 M710 M800 M903 M904
P433 P633
Ring Index
03672
Markush Compounds
199809-29004-N
```

Chemical Indexing M2 *04*

```
Fragmentation Code
B615 B701 B720 B731 B743 B815 B831 C216 C316 D010
D011 D012 D013 D014 D019 D020 D029 D040 D049 D621
D631 F010 F011 F012 F013 F014 F015 F016 F017 F018
F019 F020 F021 F029 F423 F433 F443 F450 G001 G002
G010 G011 G012 G013 G019 G020 G021 G022 G029 G030
G033 G039 G040 G050 G100 G111 G112 G113 G221 G299
G530 G553 G563 H100 H102 H103 H121 H122 H141 H161
H181 H182 H213 H401 H402 H403 H404 H405 H421 H481
H482 H483 H484 H521 H581 H582 H583 H584 H592 H598
H600 H601 H608 H609 H621 H681 H682 H683 H684 H685
H689 H713 H715 H716 H721 H722 H723 H731 J0
                                              J011
J012 J013 J014 J111 J211 J212 J311 J321 J331 J351
J352 J361 J371 J372 J373 J411 J521 J581 J582 K353
K399 K442 K499 K742 K830 K850 K899 L431 L432 L463
L560 L640 L699 L941 M113 M115 M116 M119 M121 M122
M123 M124 M125 M126 M129 M131 M132 M135 M136 M139
M142 M143 M144 M149 M150 M210 M211 M212 M213 M214
M215 M216 M220 M221 M222 M223 M224 M225 M226 M231
M232 M233 M240 M262 M271 M272 M273 M280 M281 M282
M283 M311 M312 M313 M314 M315 M316 M320 M321 M322
M323 M331 M332 M333 M334 M340 M342 M343 M344 M349
M352 M353 M362 M371 M372 M373 M381 M382 M391 M392
M393 M411 M412 M511 M512 M513 M520 M521 M522 M523
M530 M531 M532 M533 M540 M541 M542 M543 M630 M640
M650 M710 M800 M903 M904 P433 P633
Ring Index
```

03672

Markush Compounds 199809-29005-N

Chemical Indexing M2 *05*

Fragmentation Code

B615 B701 B712 B720 B731 B815 B831 C316 D011 E130

E520 F011 F012 F013 F014 F015 F019 F431 F433 F499

G010 G011 G019 G020 G021 G031 G100 G221 G310 H121

H161 H181 H201 H211 H401 H481 H601 H602 H608 H609

H621 H622 H642 H682 H684 J0 J011 J012 J3 J311

J331 J371 J372 J561 K353 K830 L432 M113 M121 M129

M132 M139 M143 M148 M149 M150 M210 M211 M212 M214

M215 M216 M231 M262 M271 M273 M280 M281 M311 M312

M314 M315 M321 M322 M332 M342 M343 M344 M349 M352

M371 M372 M373 M391 M392 M411 M412 M413 M510 M511

M521 M522 M523 M530 M531 M532 M540 M630 M640 M650

M710 M800 M903 M904 P433 P633

Ring Index

03672

Markush Compounds

199809-29006-N

Chemical Indexing M2 *06*

Fragmentation Code

B615 B701 B712 B720 B731 B815 B831 C316 D011 E130

E520 F011 F012 F013 F014 F015 F019 F431 F433 F499

G010 G011 G019 G020 G021 G031 G100 G221 G310 H121

H161 H181 H201 H211 H401 H481 H601 H602 H608 H609

H621 H622 H642 H682 H684 J0 J011 J012 J3 J311

J331 J371 J372 J561 K353 K830 L432 M113 M121 M129

M132 M139 M143 M148 M149 M150 M210 M211 M212 M214

M215 M216 M231 M262 M271 M273 M280 M281 M311 M312

M314 M315 M321 M322 M332 M342 M343 M344 M349 M352

M371 M372 M373 M391 M392 M411 M412 M413 M510 M511

M521 M522 M523 M530 M531 M532 M540 M630 M640 M650

M710 M800 M903 M904 P433 P633

Ring Index

03672

Markush Compounds

199809-29001-N

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-033203

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims KWC	İ
Draw. D	eso C	lip Img Iı	mage								

Generate Collection

Print

Terms	Documents
AU-9733420-\$.DID.	1

Display Format: FULL

Change Format

Previous Page

Next Page

```
=> d que
                                                     "VITAMIN PP"/CN-
L3
               1 SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
L4
               1 SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    NICOTINAMIDE/CN
L5
        1445316 SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    NC5/ES
                                                    L5 AND O/ELS
L6
        1248173 SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
L7
                   CH2·O
@8 9
                                 0<u>===</u> C-√ 0
                                                  O = C \sim N
                                 10 @11 12
                                                 13 @14 15
VAR G1=8/11/14
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
                                                                Aptructures
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15
STEREO ATTRIBUTES: NONE
L9
          79421 SEA FILE=REGISTRY SUB=L6 SSS FUL L7
          61402 SEA FILE=HCAPLUS ABB=ON PLU=ON L3 OR 1/4 OR L9
L10
          12754 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   IMMUNOSUPPRESSANTS/CT
L11
                                                   IMMUNOSUPPRESSION/CT
L12
          11027 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
            176 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON L10 AND (L11 OR L12)
L16
             46 SEA FILE=HCAPLUS ABB=ON PLU=ON (L3 OR L4 OR L9) (L) (IMMUNOSUPP
                 RES? OR CANCEROSTAT? OR (SIDE EFFECT OR ADVERSE REACTION) (3A) (R
                 EDUC? OR SUPPRES?))
L20
             38 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   L19 AND L16
L25
           5593 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   (L3 OR L4) AND L9
L26
             17 SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                  L25 AND (L11 OR L12)
             54 SEA FILE=HCAPLUS ABB=ON
                                                   L20 OR L26
L28
                                           PLU=ON
=> d bib abs hitstr 1-54
     ANSWER 1 OF 54 HCAPLUS COPYRIGHT 20
     2002:240756 HCAPLUS
AN
DN
     136:279345
     Preparation of hydroxyarylpyridines w
ΤI
     inhibiting activity
     Lowinger, Timothy B.; Murata, Toshiki Sachiko; Yoshino, Takashi; Sato, Hiro
IN
     Shimada, Mitsuyuki; Shintani, Takuya;
     B.; Fuchikami, Kinji; Komura, Hiroshi
PA
     Bayer Aktiengesellschaft, Germany
SO
     PCT Int. Appl., 280 pp.
     CODEN PIXXD2
DT
     Patent
LΑ
     English
FAN.CNT 3
```

COPYRIGHT 2002 ACS HCAPLUS ANSWER 23 OF L9

1976:84168 AN

84:84168 DN

Relation between providing an organism with pyridoxine and the ΤI immunological effect of 6-mercaptopurine

ΑU Artemov, V. A.

CS Kursk. Medinst., Kursk, USSR

Vopr. Eksp. Klin. Immunol. (1974), 61-3. Editor(s): Krut'ko, N. F. SO Publisher: Voronezh. Gos. Med. Inst., Voronezh, USSR. CODEN: 32BEA6

Conference DT

Russian LΑ

6-Mercaptopurine (I) [50-44-2] (40 mg/kg/day) given i.p. to rats for 4 AΒ days beginning on the day of immunization with sheep erythrocytes had an

immunodepressive effect. However, when rats were given optimal doses of pyridoxine [65-23-6] (30 .mu.g/day, s.c.), the immunodepressive effect of I was no longer obsd.

65-23-6 $\mathbf{T}\mathbf{T}$

CN

RL: BIOL (Biological study) (immunosuppression by mercaptopurine in relation to)

3,4-Pyridinedimethanol, 5-hydroxy-6-methyl- (9CI) (CA INDEX NAME) RN

$$HO-CH_2$$
 CH_2-OH

=> d que L1 STR CH2-0 O<u></u> C ~ O O<u>-----</u> C-√N @8 9 13 @14 15

VAR G1=8/11/14 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L3 78279 SEA FILE=REGISTRY SSS FUL L1

L41 SEA FILE=REGISTRY ABB=ON PLU=ON VITAMIN PP/CN

L5 1 SEA FILE=REGISTRY ABB=ON PLU=ON NICOTINAMIDE/CN

L643 SEA FILE=HCAPLUS ABB=ON PLU=ON (L3 OR L4 OR L5)(L)(IMMUNOSUPP

RES? OR CANCEROSTAT?)

L7 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L3 OR L4 OR L5)(L)(SIDE

EFFECT OR ADVERSE REACT?) (3A) (REDUC? OR SUPPRES?)

L929 SEA FILE=HCAPLUS ABB=ON PLU=ON (L6 OR L7)NOT PY>1998

=> d bib ab hitstr 1-29

ANSWER 1 OF 29 HCAPLUS COPYRIGHT 2002 ACS 1.9

1998:124021 HCAPLUS AN

128:158947 DN

TIZinc-containing composition

ΙN Hasegawa, Kazuo; Ishii, Takako

Taisho Pharmaceutical Co., Ltd., Japan; Hasegawa, Kazuo; Ishii, Takako PΑ

SO PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DTPatent

LA Japanese

FAN.CNT 1

APPLICATION NO. DATE PATENT NO. KIND DATE _____ ----______ WO 9806410 A1 19980219 PΤ WO 1997-JP2770 19970807 W: AU, CA, CN, KR, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE A1 19980306 AU 1997-37842 19970807 AU 9737842 JP 10109940 A2 19980428 JP 1997-213773 19970808 PRAI JP 1996-212604 19960812

19970807 WO 1997-JP2770

AΒ The invention relates to a zinc-contg. compn. comprising vitamin B6 and a zinciferous component, characterized in that the molar ratio of vitamin B6 to zinc contained in the component lies between 0.55:1 and 2.2:1. This

compn. is reduced in the side effects due to excessive intake of zinc and is therefore excellent in safety.

IT 58-56-0, Pyridoxine hydrochloride

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(zinc-contg. compns. comprising vitamin B6 to reduce

side effects due to excessive intake of zinc)

RN 58-56-0 HCAPLUS

CN 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl-, hydrochloride (9CI) (CA INDEX NAME)

● HCl

L9 ANSWER 2 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:713985 HCAPLUS

DN 128:3225

TI Pyridoxine deficiency: new approaches in immunosuppression and chemotherapy

AU Trakatellis, Antonios; Dimitriadou, Afrodite; Trakatelli, Myrto

CS Department of Biological Chemistry, Medical School, Aristoteles University of Thessaloniki, Greece

SO Postgraduate Medical Journal (1997), 73(864), 617-622 CODEN: PGMJAO; ISSN: 0032-5473

PB BMJ Publishing Group

DT Journal; General Review

LA English

AB A review with 25 refs. Pyridoxine deficiency leads to impairment of immune responses. It appears that the basic derangement is the decreased rate of prodn. of one-carbon units necessary for the synthesis of nucleic acids. The key factor is a pyridoxine enzyme, serine hydroxymethyltransferase. This enzyme is very low in resting lymphocytes but increases significantly under the influence of antigenic or mitogenic stimuli, thus supplying the increased demand for núcleic acid synthesis during an immune response. Serine hydroxymethyl-transferase activity is depressed by deoxypyridoxine, a potent antagonist of pyridoxal phosphate, and also by known immunosuppressive or antiproliferative agents. The combination of these agents is additive. Our results lead us to suggest the following medical applications: (a) combination of deoxypyridoxine with immunosuppressive or chemotherapeutic drugs may be effective in cases of immunosuppressive therapy or organ transplantation, (b) the development of special agents directed against the serine hydroxymethyltransferase apoprotein may prove to be a valuable medical tool, since this enzyme presents an excellent target for chemotherapy, (c) lymphocytes of individual patients could be used to design tailor-made specific

immunosuppressive or chemotherapeutic treatment, and (d) the serine hydroxymethyltransferase activity of lymphocyte culture presents an excellent indicator for the evaluation of potency of immunosuppressive, chemotherapeutic or genotoxic compds. in a simple and rapid test.

IT 65-23-6

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (deficiency; pyridoxine deficiency in new approaches to

immunosuppression and chemotherapy)

RN 65-23-6 HCAPLUS

CN 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

$$HO-CH_2$$
 OH CH_2-OH

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(pyridoxine deficiency in new approaches to **immunosuppression** and chemotherapy

L9 ANSWER 3 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:278841 HCAPLUS

DN 126:277343

TI Preparation of mycophenolic acid derivatives as immunosuppressants

IN Iino, Yukio; Fujita, Koichi; Tsuji, Hisashi; Shiozaki, Makoto; Ishizaki, Sonoko

PA Ajinomoto Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PI

RN

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 09067358 A2 19970311 JP 1995-226579 19950904

OS MARPAT 126:277343

AB Title compds. I [R1 = H, alkyl; R2, R3 = H, Me, etc.; R4 = (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted Ph, (un)substituted heterocyclyl, alkoxy, (un)substituted phenoxy, etc.] are prepd. and their absorption and toxicity were studied. Thus, stirring a mixt. of Et mycophenolate and 4-methoxybenzyl chloride in DMF contg. K2CO3 at room temp. for 40 h gave 90% I [R1 = Et, OR2R3R4 = O-CH2-C6H4-OMe-p]. I [R1 = H, OR2R3R4 = O-CH2-C6H4-OMe-o], also prepd., showed absorption comparable to that of mycophenolic acid; its toxicity to the small intestine as indicated by the activity of alk. phosphatase was comparable to that of mofetil mycophenolate.

IT 188711-57-1P 188711-87-7P

RL: ADV (Adverse effect, including toxicity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of mycophenolic acid derivs. as immunosuppressants) 188711-57-1 HCAPLUS

CN 4-Hexenoic acid, 6-[1,3-dihydro-6-methoxy-7-methyl-3-oxo-4-(3-pyridinylmethoxy)-5-isobenzofuranyl]-4-methyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 188711-87-7 HCAPLUS

CN 4-Hexenoic acid, 6-[1,3-dihydro-6-methoxy-7-methyl-3-oxo-4-(3-pyridinylmethoxy)-5-isobenzofuranyl]-4-methyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L9 ANSWER 4 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:607984 HCAPLUS

DN 123:83100

TI Carbamates of rapamycin

IN Kao, Wenling; Skotnicki, Jerauld S.; Abou-Gharbia, Magid A.; Palmer, Yvette I.

PA American Home Products Corporation, USA

SO U.S., 25 pp. Cont.-in-part of U.S. Ser. No. 160,984, abandoned. CODEN: USXXAM

DT Patent

LA English FAN.CNT 7

PAN CNI				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5411967	Α	19950502	US 1994-224893	19940408
US 5302584	Α	19940412	US 1993-54655	19930423
PRAI US 1992-960597	B2	19921013		
US 1993-54655	A3	19930423		
US 1993-160984	B2	19931201		

OS MARPAT 123:83100

AB 42- And/or 31-esters of rapamycin with carbamic acids are useful as immunosuppressive, antiinflammatory, antifungal, antiproliferative, and antitumor agents. Thus, rapamycin was treated with 4-02NC6H402CCl to give the 42-p-nitrophenyl carbonate which was treated with NH3 to give the 42-carbamate. The latter compd. had an IC50 in the lymphocyte proliferation test of 1.7 nM.

IT 59-67-6, Nicotinic acid, reactions

RL: RCT (Reactant)

(prepn. of immunosuppressant rapamycin carbamates)

RN 59-67-6 HCAPLUS

CN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME)

IT 165124-31-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of immunosuppressant rapamycin carbamates)

RN 165124-31-2 HCAPLUS

CN Rapamycin, 42-ester with 3-pyridinecarboxylic acid 2-carboxyhydrazide (9CI) (CA INDEX NAME)

L9 ANSWER 5 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:435336 HCAPLUS

DN 121:35336

TI Pyridine derivatives, their production and use as pharmaceuticals

IN Takatani, Muneo; Saijo, Taketoshi; Tomimatsu, Kiminori

PA Takeda Chemical Industries, Ltd., Japan

SO Can. Pat. Appl., 320 pp.

CODEN: CPXXEB

DT Patent

	English					
FAN.	CNT 1 PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
PI	CA 2068255		19921111		CA 1992-2068255	19920508
					EP 1992-201288	19920507
	EP 522606					
	EP 522606					
					GB, GR, IT, LI, LU,	
	US 5246948	A	19930921		US 1992-880641	19920507
	EP 612729	A2	19940831		EP 1994-107873	19920507
	EP 612729					
	EP 612729				an an	D
	R: AT, BE	, CH <u>,</u> DE	, DK, ES,	FR,	GB, GR, IT, LI, LU,	, NL, PT, SE
	AT 136296	E	19960415		AT 1992-201288 AT 1994-107873。 JP 1992-115871	19920507
	AT 152102	E	199/0515		AT 1994-10/8/3.	19920507
	JP U5125U48	AZ	19930521		US 1992-1158/1 US 1993-81181	19920508
	US 5389658	A	19950214		US 1993-81181	19930624
	US 545/106	A	19951010		US 1994-334221	19941104
					US 1995-455170	
	JP 1991-105691	Α	19980616		US 1996-717022	19960920
PRAI	EP 1991-105691					
	US 1992-880641 US 1993-81181					
	US 1994-334221 US 1995-455170					
	05 1995-4551/0		1990031			

- OS MARPAT 121:35336
- AB Pyridines R-X-A-N(R3)-CHR4-Y [R = (un)substituted pyridyl; X = 0, S, SO, SO2; A = C1-15 bivalent hydrocarbon residue with (un)substituted branched moiety; Y = 0, S; R3 = H, hydrocarbyl; R4 = hydrocarbyl, heterocyclyl; R3R4 joined with (thio)carbamoyl group to form (un)substituted heterocyclyl; R3, R4 independently attached to A to form a ring] and their pharmaceutically acceptable salts were prepd. Their immunomodulatory activity or adhesion protein expression inhibitory activity as well as inflammation inhibitory, antipyretic, and analgesic activities are claimed. For example, among specifically claimed compds. is the benzothiophenecarboxamide I.
- IT 155965-84-7P 155966-29-3P 155966-77-1P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as inflammation inhibitor, antipyretic, analgesic, antiallergic or immunosuppressant)

- RN 155965-84-7 HCAPLUS
- CN 3-Pyridinecarboxamide, N-[3-(4-pyridinylthio)propyl]- (9CI) (CA INDEX NAME)

- RN 155966-29-3 HCAPLUS
- CN 3-Pyridinecarboxamide, N-[3-(4-pyridinyloxy)propyl]- (9CI) (CA INDEX NAME)

- RN 155966-77-1 HCAPLUS
- CN 3-Pyridinecarboxamide, N-[(4-pyridinylthio)methyl]- (9CI) (CA INDEX NAME)

- IT 3569-99-1, N-(Hydroxymethyl)nicotinamide
 - RL: RCT (Reactant)

(reaction of, in prepn. of immunosuppressant pyridines)

- RN 3569-99-1 HCAPLUS
- CN 3-Pyridinecarboxamide, N-(hydroxymethyl)- (9CI) (CA INDEX NAME)

L9 ANSWER 6 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:260808 HCAPLUS

DN 120:260808

TI Restoration of postburn impaired lymphocyte responsiveness by nonsteroidal anti-inflammatory drugs is independent of prostaglandin E2 inhibition

AU Mathieu, Jacques; Masson, Isabelle; Chancerelle, Yves; Chanaud, Brigitte; Strazlko, Suzanne; De Sousa, Martine; Kergonou, Jean Francois; Giroud, Jean Paul; Florentin, Irene

CS Unite Radiobiochim., Cent. Rech. Serv. Sante Armees, Paris, Fr.

SO J. Leukocyte Biol. (1994), 55(1), 64-72 CODEN: JLBIE7; ISSN: 0741-5400

DT Journal

LA English

Prostaglandin E2 (PGE2) has been implicated in postburn immunosuppression, AB which is responsible for septic complications. In the present work, seven nonsteroidal anti-inflammatory drugs (NSAIDs), differing by their capacity to inhibit the cyclooxygenase pathway, were compared for their ability to restore T lymphocyte proliferative responses evaluated 4 days after thermal injury in rats. Salicylic acid, 5-aminosalicylic acid, and niflumic acid, given daily, fully restored spleen cell responses to Con A (Con A) and phytohemagglutinin. These drugs were active only at doses that were below the anti-inflammatory doses and did not modify normal spleen cell responses. In these conditions, indomethacin slightly restored lymphocyte reactivity, whereas acetylsalicylic acid, ketoprofene, and piroxicam were ineffective. PGE2 prodn. by Con A-stimulated spleen cells from untreated burned rats and after treatment with niflumic acid or 5-aminosalicylic acid did not correlate with the intensity of the proliferative response. Indomethacin, niflumic acid, and 5-aminosalicylic acid were added in vitro to spleen cells from normal and burned rats, at concns. from 10-7 to 10-4 M. PGE2 prodn. was strongly depressed by indomethacin and niflumic acid and not modified by 5-aminosalicylic acid. The proliferative response of normal spleen cells were depressed in a concn.-dependent manner by niflumic acid and slightly inhibited at the highest concns. of indomethacin. In contrast, indomethacin concn. dependently restored the burn-impaired proliferative response, whereas niflumic acid further depressed it and 5-aminosalicylic acid had no effect. These results demonstrate that only some NSAIDs are able to restore T lymphocyte reactivity impaired after thermal injury and that this property is not related to inhibition of PGE2 prodn.

IT 4394-00-7, Niflumic acid

RL: BIOL (Biological study)

(T-lymphocyte proliferative response restoration by, in postburn immunosuppression)

RN 4394-00-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[3-(trifluoromethyl)phenyl]amino]- (9CI) (CA INDEX NAME)

L9 ANSWER 7 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:192219 HCAPLUS

DN 120:192219

TI Preparation of deoxyribonucleoside derivatives as carcinostatics, virucides, and immunosuppressants

IN Togo, Hideo; Ishigami, Sachiko; Fujii, Misa; Yokoyama, Masataka

PA Nippon Kayaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

OS MARPAT 120:192219

AB The title derivs. I (R1 = H, OH protecting group), their physiol. acceptable salts, II (R2 = H, Me; R3 = H, OH protecting group), and their physiol. acceptable salts are prepd. as carcinostatics, virucides, and immunosuppressants (no data). Photoirradn. of a mixt. of 4,6-dibenzoyl-2,5-anhydro-3-deoxy-.beta.-ribohexonic acid (III) and [bis(trifluoroacetoxy)iodo]pentafluorobenzene (IV), and lepidine in CH2Cl2 for 10 h gave 56% (1.beta.)-1-(2-lepidinyl)-3,5-dibenzoyl-D-deoxyribofuranose. Photoirradn. of a mixt. of III, IV, and Me nicotinate in CH2Cl2 for 10 h gave 42% (1.alpha.)-1-[2-(5-methoxycarbonylpyridyl)]-3,5-dibenzoyl-D-deoxyribofuranose.

IT 145383-45-5P 153765-72-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as carcinostatic and virucide and immunosuppressant
)

RN 145383-45-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(3,5-di-O-benzoyl-2-deoxy-.alpha.-D-erythro-pentofuranosyl)-, methyl ester (9CI) (CA INDEX NAME)

RN 153765-72-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(2-deoxy-.alpha.-D-erythro-pentofuranosyl)- (9CI) (CA INDEX NAME)

L9 ANSWER 8 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1992:214352 HCAPLUS

DN 116:214352

TI Preparation of 2,4- and 2,5-substituted pyridine N-oxides as fibrosuppressive and immunosuppressive agents

IN Baader, Ekkehard; Bickel, Martin; Guenzler-Pukall, Volkmar

PA Hoechst A.-G., Germany

SO Eur. Pat. Appl., 26 pp. CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

rAN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 463592 EP 463592	A1 B1	19920102 19940817	EP 1991-110343	19910622
	R: AT, BE,	CH, DE	, DK, ES, FR	, GB, GR, IT, LI, LU,	•
	DE 4020570 ES 2061118	A1 T3	19920102 19941201	DE 1990-4020570 ES 1991-110343	19900628 19910622
	FI 9103118 FI 101070	A B	19911229 19980415	FI 1991-3118	19910626
	IL 98629	A1	19960514	IL 1991-98629	19910626
	CZ 283782 CA 2045868	B6 AA	19980617 19911229	CZ 1991-1959 CA 1991-2045868	19910626 19910627
	NO 9102541	A	19911230	NO 1991-2541	19910627
	NO 178026 NO 178026	B C	19951002 19960110		
	AU 9179356 AU 636990	A1 B2	19920102 19930513	AU 1991-79356	19910627
	110 000000	22	1000010		

	CN	1057649	. A	19920108	CN	1991-104308	19910627
	CN	1038585	В	19980603			
	BR	9102699	Α	19920204	BR	1991-2699	19910627
	ZA	9104958	A	19920325	ZA	1991-4958	19910627
	HU	59104	A 2	19920428	HU	1991-2158	19910627
	HU	214627	В	19980428			
	JΡ	04230264	A2	19920819	JΡ	1991-156562	19910627
	JP	08032687	В4	19960329			
	US	5260323	Α	19931109	US	1992-978467	19921119
	LV	10431	В	19960220	LV	1993-284	19930504
	LT	3918	В	19960425	LT	1993-1464	19931112
PRAI	DE	1990-4020570		19900628			
	US	1991-721681		19910626			
OΘ	MAT	חמת 116.21/252					

OS MARPAT 116:214352

AB Title compds. I [R1 = COXR3; X = O, NR; R3 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl, etc.; R = R3 or NRR3 = Q; n = 1-3; A = O, S, CH2, NR7; R7 = H, (substituted) Ph, alkyl, alkenyl, alkynyl, alkoxycarbonyl, cycloalkyl; R2 = COXR3; with provisos] were prepd. as proline- and lysine hydroxylase inhibitors useful as fibrosuppressive and immunosuppressive agents. Thus, N-oxidn. of 1 g bis[N,N'-2-methoxyethyl)pyridine-2,4-dicarboxamide by 0.62 g m-chloroperbenzoic acid gave 620 mg of the bis(N,N'-2-methoxyethyl)pyridine-2,4-dicarboxamide N-oxide (II). II was tested as a proline hydroxylase inhibitor.

IT 117517-21-2 139994-18-6

RL: RCT (Reactant)

(N-oxidn. of, by chloroperbenzoic acid, in prepn. of fibrosuppressive and immunosuppressive agents)

RN 117517-21-2 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-diethyl- (9CI) (CA INDEX NAME)

RN 139994-18-6 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-bis(3-methoxypropyl)- (9CI) (CA INDEX NAME)

MeO- (CH₂)₃-NH-C N
$$C$$
-NH- (CH₂)₃-OMe

IT 139994-07-3P 139994-08-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as fibrosuppressive and immunosuppressive agent)

RN 139994-07-3 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-diethyl-, 1-oxide (9CI) (CA INDEX NAME)

RN 139994-08-4 HCAPLUS

CN 2,5-Pyridinedicarboxamide, N,N'-bis(3-methoxypropyl)-, 1-oxide (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1989:229997 HCAPLUS

DN 110:229997

TI Binding of organic acids to surface receptors of lymphocytes as an immunosuppressive mechanism in uremia

AU Sanaka, Tsutomu; Hayasaka, Yutaro; Kawashima, Yoichiro; Takuma, Takehide; Sugino, Nobuhiro; Ota, Kazuo; Gulyassy, Paul F.

CS Kidney Cent., Tokyo Women's Med. Coll., Tokyo, Japan

SO Adv. Exp. Med. Biol. (1987), 223(Uremic Toxins), 165-9 CODEN: AEMBAP; ISSN: 0065-2598

DT Journal

LA English

AB Org. acids (protein-binding inhibitors, PB-Ix) from blood of a renal failure patient probably bind to the surface of lymphocytes and exert inhibitory effects on mitogen receptors and Leu4 and HLA-DR antigens.

IT 89-00-9, Quinolinic acid

RL: BIOL (Biological study)

(lymphocytes response to, immunosuppression by

protein-binding inhibitors in blood of humans in uremia in relation to)

RN 89-00-9 HCAPLUS

CN 2,3-Pyridinedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1988:87738 HCAPLUS

DN 108:87738

TI Studies on the sesquiterpene alkaloids of Tripterygium wilfordii Hook. F

AU Deng, Fuxiao; Cao, Jianhong; Xia, Zhilin; Lin, Sui; Wang, Xiaoyi

CS Fujian Inst. Med. Sci., Fuzhou, Peop. Rep. China

SO Zhiwu Xuebao (1987), 29(5), 523-6 CODEN: CHWHAY; ISSN: 0577-7496

DT Journal

LA Chinese

AB Euonine (I) was isolated from the roots of T. wilfordii. A new sesquiterpene alkaloid, named wilfornine (II), was also isolated. Both I and II had immunosuppressive activities in mice.

IT 112899-84-0

RL: BIOL (Biological study)
 (of Tripterygium wilfordii, isolation of and immunosuppression
 from)

RN 112899-84-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, (8R,9R,10R,11S,12S,13R,14R,15S,18S,21S,22R,23R)-10,13,22,23-tetrakis(acetyloxy)-12-[(acetyloxy)methyl]-7,8,9,10,12,13,14,15,17,18,19,20-dodecahydro-21-hydroxy-8,18,21-trimethyl-5,17-dioxo-8,11-epoxy-9,12-ethano-11,15-methano-5H,11H-[1,9]dioxacyclooctadecino[4,3-b]pyridin-14-yl ester (9CI) (CA INDEX NAME)

L9 ANSWER 11 OF 29 HCAPLUS COPYRIGHT 2002 ACS

1986:454617 HCAPLUS ΑN

DN 105:54617

Pyridine-2,4- and 2,5-dicarboxylic acid esters as drugs for inhibition of ΤI proline and lysine hydroxylase

Guenzler, Volkmar; Hanauske-Abel, Hartmut; Mohr, Juergen; Tschank, Georg; IN Kivirikko, Kari; Majamaa, Kari; Brocks, Dietrich

Hoechst A.-G. , Fed. Rep. Ger. Ger. Offen., 7 pp. PΑ

SO

CODEN: GWXXBX

DTPatent

LΑ German

FAN. CNT 1

ran.		TENT NO.		KIND	DATE		AP	PLICATION NO.	DATE
ΡI	DE	3432094		A1	19860306		DE	1984-3432094	19840831
	ΕP	176741		A1	19860409		EΡ	1985-110498	19850821
	ΕP	176741		В1	19881026				
		R: AT,	BE,	CH, DE	, FR, GB,	IT,	LI,	LU, NL, SE	
	ΑT	38222		E	19881115		AT	1985-110498	19850821
	ES	546527		A1	19860716		ES	1985-546527	19850829
	US	4717727		Α	19880105		US	1985-770676	19850829
	DK	8503977		Α	19860301		DK	1985-3977	19850830
	DK	166127		В	19930315				
	DK	166127		С	19930809				
	ΑU	8546928		A1	19860306		AU	1985-46928	19850830
	ΑU	588826		B2	19890928				
	JP	61060655		A2	19860328		JP	1985-189996	19850830
	JP	06041412		B4	19940601				
	ZA	8506646		Α	19860528		ZA	1985-6646	19850830
	CA	1246456		A1	19881213		CA	1985-489741	19850830
PRAI	DE	1984-3432	094		19840831				
	ΕP	1985-1104	98		19850821				

The title alkyl esters are inhibitors of proline and lysine hydroxylases AΒ useful as antifibrotics and immunosuppressants and for treatment of disorders in collagen metab. and complement Clq formation. For example, di-Et pyridine-2,4-dicarboxylate at 10 .mu.M caused 70% inhibition of conversion of proline-14C to hydroxyproline-14C in the collagen of isolated calvaria, compared to 50% inhibition at 670 .mu.M for the free acid.

IT 1678-52-0 5552-44-3

RL: BIOL (Biological study)

(as antifibrotic and immunosuppressant, lysine and proline hydroxylase inhibition in relation to)

RN 1678-52-0 HCAPLUS

3,4-Pyridinedicarboxylic acid, diethyl ester (7CI, 8CI, 9CI) (CA INDEX CN NAME)

RN 5552-44-3 HCAPLUS

CN 2,5-Pyridinedicarboxylic acid, diethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

IT 100-26-5D, alkyl esters

RL: BIOL (Biological study)

(as antifibrotics and **immunosuppressants**, lysine and proline hydroxylase inhibition in relation to)

RN 100-26-5 HCAPLUS

CN 2,5-Pyridinedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 12 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1985:161680 HCAPLUS

DN 102:161680

TI Mechanism of deoxyadenosine and 2-chlorodeoxyadenosine toxicity to nondividing human lymphocytes

AU Seto, Shiro; Carrera, Carlos J.; Kubota, Masaru; Wasson, D. Bruce; Carson,

CS Dep. Basic Clin. Res., Scripps Clin. Res. Found., La Jolla, CA, 92037, USA

SO J. Clin. Invest. (1985), 75(2), 377-83

CODEN: JCINAO; ISSN: 0021-9738

DT Journal

LA English

AB The sequential metabolic changes induced in nondividing human peripheral blood lymphocytes by incubation with deoxyadenosine (I) [958-09-8] + deoxycoformycin, or with 2-chlorodeoxyadenosine (CdA) [4291-63-8], an adenosine deaminase (ADA) resistant I congener with antileukemic and immunosuppressive properties were examd. The lymphotoxic effect of I and CdA required their phosphorylation, and was inhibited by deoxycytidine [951-77-9]. As early as 4 h after exposure to the deoxynucleosides, strand breaks in lymphocyte DNA began to accumulate, and RNA synthesis decreased. These changes were followed by a significant fall in intracellular NAD [53-84-9] levels at 8 h, a drop in ATP [56-65-5] pools at 24 h, and cell death by 48 h. Incubation of the lymphocytes with 5 mM nicotinamide [98-92-0], a NAD precursor and an inhibitor of poly(ADP-ribose) synthetase, prevented NAD depletion. The nicotinamide treatment also rendered the lymphocytes highly resistant

to deoxyadenosiine and CdA toxicity, without altering dATP [1927-31-7] formation or the accumulation of DNA strand breaks. The poly(ADP-ribose) synthetase inhibitor 3-aminobenzamide [3544-24-9] exerted a similar although less potent effect. These results suggest that NAD depletion, probably triggered by poly(ADP-ribose) formation, is the principle cause of death in normal resting human lymphocytes exposed to I + deoxycoformycin, or to CdA.

L9 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2002 ACS

KIND DATE

AN 1985:154808 HCAPLUS

DN 102:154808

TI Immunoregulating formulations containing chroman derivatives

PA Kuraray Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF

DT Patent

LA Japanese

PATENT NO.

FAN.CNT 1

PI AB				JP 1983-97596				
AD	Immunoregulating formulations contain chroman compds. I where $n = 5$.apprx.9. Thus, 2,5,7,8-tetramethyl-2-(4,8,12,16,20,24-							
	hexamethylpentacosa-3,7,11,15,19,23-hexaen-1-yl)-6-cromanol (II)							
	[95653-38-6] 10,	beeswax 1,	hydroxyprop	yl cellulose 3,	cryst. cellulose			
	30, lactose 30,	corn starch	20, and CM	cellulose Ca 5	g were mixed with 30			
	mL H2O and made	into tablets	s (100 mg/ta	ablet). Methods	for the prepn. of a			
	no. of I are des	cribed. E.c	g., 2,3,5-ti	rimethylhydroqui	none [700-13-0] was			
	treated with 3,7	,11,15,19,23	,27-heptame	ethyloctacosa-1,	6,10,14,18,22,26-			

heptaen-3-ol [95653-47-7] in the presence of BF3.0Et2 to give II.

APPLICATION NO. DATE

IT 95653-50-2P

RL: PREP (Preparation)

(prepn. of, for immunosuppressant formulations)

RN 95653-50-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12,16,20-pentamethyl-3,7,11,15,19-heneicosapentaenyl)-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

PAGE 1-B

L9 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1985:154807 HCAPLUS

DN 102:154807

TI Immunosuppressant formulations containing chroman derivatives

PA Kuraray Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
TP 59222415	A2	19841214	TP 1983-97597	19830531

PI JP 59222415 A2 19841214 JP 1983-97597 19830531

AB Immunosuppressant formulation contain chroman derivs. I (R = C1-11 alkyl).

Thus 2 5 7 8-tetramethyl-2-/4 8-dimethylpopyl)-6-chromanol (II)

Thus, 2,5,7,8-tetramethyl-2-(4,8-dimethylnonyl)-6-chromanol (II) [16171-35-0] 10, beeswax 1, hydroxypropyl cellulose 3, cryst. cellulose 30, lactose 30, corn starch 20, and CM cellulose Ca 5 g were mixed with 30 mL H2O and made into tablets (100 mg/tablet). Methods for the prepn. of several I compds. are described. E.g., II was prepd. by the reaction of 2,3,5-trimethylhydroquinone [700-13-0] with 3,7,11-trimethyldodec-2-enyl bromide [95653-63-7] in the presence of an acid catalyst.

IT 95653-59-1P

RL: PREP (Preparation)

(prepn. of, for immunosuppressant pharmaceuticals)

RN 95653-59-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(4,8-dimethylnonyl)-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl ester (9CI) (CA INDEX NAME)

L9 ANSWER 15 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1978:484502 HCAPLUS

DN 89:84502

TI Effects of antirheumatics on lymphocytes in culture

AU Binderup, L.; Bramm, E.; Arrigoni-Martelli, E.

CS Dep. Pharmacol., Leo Pharm. Prod., Ballerup, Den.

SO Drugs Exp. Clin. Res. (1977), 2(1), 181-8 CODEN: DECRDP

DT Journal

LA English

AB Basal and concanavalin A-stimulated thymidine-3H incorporation by rat lymph node lymphocytes was inhibited by nonsteroidal antiinflammatory drugs and immunosuppressive drugs, whether the lymphocytes were exposed to the drugs during the entire culture period or were preincubated with them. D-Penicillamine [52-67-5], levamisole [14769-73-4], chloroquine [54-05-7] and 5-mercaptopyridoxine [2545-66-6] all

enhanced the concanavalin A-stimulated incorporation of thymidine-3H when the lymphocytes were preincubated with them, prior to exposure to mitogen. This modification of the classical lymphocyte transformation test might provide an approach to in vitro evaluation of potentially useful antirheumatics.

- L9 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1978:400554 HCAPLUS
- DN 89:554
- TI Study of the effect of immunosuppressants on the interrelation of nucleic acids and nicotinamide nucleotides in rheumatic tissues
- AU Miskinyte, G.; Jusiene, J.; Astrauskas, V.
- CS Inst. Eksp. Klin. Med., Vilnius, USSR
- SO Mater. Biokhim. Konf. Pribalt. Resp. B. SSR, 5th (1976), Volume 1, 84-5. Editor(s): Sibul, I. K. Publisher: Akad. Nauk Est. SSR, Tallinn, USSR. CODEN: 38BKAW
- DT Conference
- LA Russian
- AB In rabbits with exptl. arthritis, plasma nucleic acid levels were decreased; the concn. of RNA and DNA in the spleen were unaffected. Treatment with cyclophosphane [50-18-0] plus azathioprine [446-86-6] (10 mg/kg, each) or with 20 mg/kg of either compd. alone decreased DNA; only azathioprine alone decreased RNA. Cyclophosphane plus azathioprine or cyclophosphane alone increased NAD [53-84-9] and NADP [53-59-8], azathioprine decreased both nicotinamide nucleotides. In livers of arthritic rabbits, RNA and DNA concns. were increased and NAD and NADP concns. were decreased. The immunosuppressants had no effect on DNA; RNA was increased by either compd. alone or by the combined treatment. The immunosuppressants decreased nicotinamide nucleotides when given together or sep.
- IT 53-59-8 53-84-9

RL: BIOL (Biological study)
 (of liver and spleen, in arthritis, immunosuppressant effect
 on)

- RN 53-59-8 HCAPLUS
- CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

-NH₂

RN 53-84-9 HCAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L9 ANSWER 17 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1977:448117 HCAPLUS

DN 87:48117

TI Effect of coamide on immunogenesis in antibiotic therapy

AU Nikolaev, A. I.; Nazarmukhamedova, M. N.

CS Uzb. Res. Inst. Epidemiol., Microbiol. Infect. Dis., Tashkent, USSR

SO Antibiotiki (Moscow) (1977), 22(5), 460-5 CODEN: ANTBAL

DT Journal

LA Russian

AB Oxytetracycline [79-57-2] (500 or 1000 .mu.g) and monomycin [54597-56-7] (250, 500, or 1000 .mu.g) injected i.m. into mice daily for 4 days before immunization with sheep erythrocytes had an immunosuppressive effect, inhibiting both the spleen antibody-producing cells and the hemagglutinin titer. Coamide [6856-47-9] (0.5 mg) given s.c. daily for 5 days beginning with immunization to the antibiotic-treated animals increased the no. of antibody producing cells and hemagglutinin titers.

IT 6856-47-9

RL: BIOL (Biological study)

(immunosuppression by antibiotics antagonism by)

RN 6856-47-9 HCAPLUS

CN Cobalt, dichlorobis(3-pyridinecarboxamide-N1)-, (T-4)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ H_2N-C & & & \\ & & & \\ & & & \\ O & & & \\ & & & \\ O & & & \\ \end{array}$$

L9 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1977:153796 HCAPLUS

DN 86:153796

TI Immunosuppression under vitamin B6 deficiency. Experimental studies with skin transplants in inbred mice

AU Dobbelstein, H.; Baumgaertner, R.; Schubert, G.; Thoenes, G.

CS I. Mediz. Klin., Univ. Muenchen, Munich, Ger.

SO Res. Exp. Med. (1977), 169(3), 189-202 CODEN: REXMAS

DT Journal

LA German

AB Skin graft rejection was used to det. the immunosuppressive effects of vitamin B6 deficiency in mice. Results showed that diet-induced deficiency was not specific. But marked immunosuppression was obsd. in mice treated with a vitamin B6 antagonist (i.e., deoxypyridoxine at 100 .mu.g/100 g body wt.). Thus, vitamin B6 may be required for normal immune responses.

IT 61-67-6

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(immunosuppressant activity of)

RN 61-67-6 HCAPLUS

CN 3-Pyridinemethanol, 5-hydroxy-4,6-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$$Me$$
 HO
 CH_2-OH
 Me

- L9 ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN .1976:575421 HCAPLUS
- DN 85:175421
- TI Nicotinamide: suppression of lymphocyte transformation with a component identified in human transfer factor
- AU Burger, Denis R.; Vandenbark, Arthur A.; Daves, Doyle; Anderson, William A., Jr.; Vetto, R. Mark; Finke, Patricia
- CS Surg. Res. Lab., VA Hosp., Portland, Oreg., USA
- SO J. Immunol. (1976), 117(3), 797-801 CODEN: JOIMA3
- DT Journal
- LA English
- AB The component in human transfer factor (TF) (Fraction IV, from exclusion

July 8, 2002 <c09/693,558

chromatog. on Sephadex G-25) responsible for suppression of antigen-induced lymphocyte transformation was previously identified as nicotinamide. Com. nicotinamide was subsequently shown to produce suppression of antigen-induced responses in vitro previously obsd. with TF Fraction IV. Nicotinamide was found to be nontoxic at the highest concns. employed (10-2M) and suppressive over a relatively broad range (10-5-10-2M). The suppression appeared to be related to the magnitude of antigen- or mitogen-induced transformation and was apparent even when nicotinamide was added as late as 48 hr after stimulant addn.

IT 98-92-0

RL: BIOL (Biological study)

(immunosuppressant, allergy transfer factor in relation to)

98-92-0 HCAPLUS RN

3-Pyridinecarboxamide (9CI) (CA INDEX NAME) CN

L9 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2002 ACS

1976:456769 HCAPLUS AN

85:56769 DN

The effect of clonixin, betamethasone and cyclophosphamide on ΤI endotoxin-induced cellular mobilization

Watnick, A. S.; Gilchrest, H.; Kearney, S.; Sabin, C. ΑU

Schering Corp., Bloomfield, N. J., USA CS

SO Future Trends Inflammation, Proc. Int. Meet. (1974), Meeting Date 1973, 235-47. Editor(s): Velo, G. P.; Willoughby, D. A.; Giroud, J. P. Publisher: Piccin Med. Books, Padua, Itay. CODEN: 33IWAY

DTConference

LΑ English

AΒ Betamethasone (I) [378-44-9] and clonixin [17737-65-4] suppressed the total no. of free cells mobilized into the rat peritoneum 5 and 24 hr following an i.p. injection of endotoxin. These agents also inhibited paw edema 5 hr after carrageenan injection. Cyclophosphamide [50-18-0], an immunosuppressant, also suppressed the no. of cells mobilized by endotoxin but only at doses which decreased the circulating white cell count. Cyclophosphamide did not significantly inhibit carrageenan induced edema. Thus, edema formation may not be directly correlated with cellular mobilization.

ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2002 ACS L9

1976:456666 HCAPLUS AN

85:56666 DN

Nucleic acids. 16. Orally active derivatives of ara-cytidine TI

Wechter, W. J.; Gish, D. T.; Greig, M. E.; Gray, G. D.; Moxley, T. E.; ΑU Kuentzel, S. L.; Gray, L. G.; Gibbons, A. J.; Griffin, R. L.; Neil, G. L.

Res. Div., Upjohn Co., Kalamazoo, Mich., USA J. Med. Chem. (1976), 19(8), 1013-17 CS

SO CODEN: JMCMAR

- DT Journal
- LA English
- Water-sol. derivs. of aracytidine (I) [147-94-4], including 5'-palmitoyl[59465-83-7], 5'-benzoyl- [59465-84-8], and 5'-(1-adamantoyl)aracytidineHCl [59465-77-9] and their N4-(tert-butoxycarbonylglycyl-L-arginyl)
 derivs. were prepd. and tested, along with the 5'-nicotinate-HCl [
 59465-85-9] and 5'-quinuclidinate-2HCl [59457-00-0] of I, for
 antitumor, immunosuppressive, and antiarthritic activities.
 Five of the compds. had oral activity superior to I in the L1210 leukemia
 mouse assay, while the adamantoyl deriv. had oral activity approaching
 that of parenterally administered I. Four of these same compds. were also
 more effective immunosuppressants than I. None of the derivs.
 had significant antiinflammatory activity.
- L9 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1976:440987 HCAPLUS
- DN 85:40987
- TI Interrelation of nicotinamide coenzymes and nucleic acids in rabbit tissues during experimental rheumatism following administration of immunosuppressants
- AU Jusiene, J.; Miskinyte, G.
- CS Nauchno-Issled. Inst. Eksp. Klin. Med., Vilnius, USSR
- Immunodepressanty Revm. Zabol., Mater. Vses. Nauchn. Konf. Revmatol., 6th (1974), 137-9. Editor(s): Nesterov, A. I. Publisher: Nauchno-Issled. Inst. Eksp. Klin. Med., Vilnius, USSR. CODEN: 33GRA9
- DT Conference
- LA Russian
- In rabbits, exptl. rheumatism and rheumatoid arthritis were assocd. with AΒ increases in DNA and RNA and decreases in NAD [53-84-9], NADH2 [58-68-4], NADP [53-59-8], and NADPH2 [53-57-6] in the heart and Treatment of rheumatoid animals with imuran [446-86-6] (20 mg/kg/day for 1 month) had no effect on the nucleic acid or nicotinamide coenzyme content, but altered the ratio of reduced and oxidized forms of the coenzymes. Lofenal [10047-08-2] (30 mg/kg) and hisphen [2764-56-9](40 mg/kg) given daily for 1 month decreased nucleic acid levels and increased the nicotinamide coenzyme levels in the heart and to a lesser extent in the liver. In rabbits with rheumatoid arthritis, lofenal only decreased RNA and increased NAD in the liver and hisphen increased the coenzyme in the liver and normalized DNA and the coenzymes in the heart. Apparently, during the rheumatoid process, nucleic acid synthesis was increased, whereas during immunosuppressant therapy nicotinamide coenzyme synthesis is increased.
- IT 53-59-8 53-84-9
 - RL: BIOL (Biological study)
 - (of heart and liver, in arthritis, immunosuppressants effect on)
- RN 53-59-8 HCAPLUS
- CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

-NH₂

RN 53-84-9 HCAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

- L9 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1976:84168 HCAPLUS
- DN 84:84168
- TI Relation between providing an organism with pyridoxine and the immunological effect of 6-mercaptopurine
- AU Artemov, V. A.
- CS Kursk. Medinst., Kursk, USSR
- SO Vopr. Eksp. Klin. Immunol. (1974), 61-3. Editor(s): Krut'ko, N. F. Publisher: Voronezh. Gos. Med. Inst., Voronezh, USSR. CODEN: 32BEA6
- DT Conference
- LA Russian
- AB 6-Mercaptopurine (I) [50-44-2] (40 mg/kg/day) given i.p. to rats for 4 days beginning on the day of immunization with sheep erythrocytes had an

immunodepressive effect. However, when rats were given optimal doses of pyridoxine [65-23-6] (30 .mu.g/day, s.c.), the immunodepressive effect of I was no longer obsd.

IT 65-23-6

RL: BIOL (Biological study)

(immunosuppression by mercaptopurine in relation to)

RN 65-23-6 HCAPLUS

CN 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

L9 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1976:15365 HCAPLUS

DN 84:15365

TI Immunosuppressor-induced changes in the content of 11hydroxycorticosteroids, nucleic acids, and nicotinamide coenzymes during experimental rheumatism and rheumatism-arthritis

AU Miskinyte, G.; Jusiene, J.

CS Nauchno-Issled. Inst. Eksp. Klin. Med., Vilnius, USSR

SO Vopr. Endokrinol., Mater. Konf. Endokrinol., 7th (1974), Meeting Date 1973, 202-4. Editor(s): Ester, K. M. Publisher: Tartu. Gos. Univ., Tartu, USSR.

CODEN: 31TIAX

DT Conference

LA Russian

AB In liver of rabbits with exptl. rheumatism and rheumatic arthritis, 11-hydroxycorticosteroids, DNA, RNA and NADP increased and NADPH decreased. After oral administration of alkylating immunosuppressants lophenal or hisphen, the parameters changed in the opposite direction. Lophenal had most favorable normalizing effect on the parameters in rheumatic arthritis.

IT 53-59-8

RL: BIOL (Biological study)

(of liver, immunosuppressants effect on)

RN 53-59-8 HCAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

-NH₂

L9 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2002 ACS

AN 1975:71160 HCAPLUS

DN 82:71160

TI Change in the content of nicotinamide nucleotides and of nonesterified fatty acids in rabbits with experimental rheumatism and under the effect of the immunosuppressors imuran, lofenal, hisphen

AU Jusiene, J.

CS Nauchno-Issled Inst. Eksp. Klin. Med., Vilnius, USSR

SO Sovrem. Probl. Biokhim. Dykhaniya Klin., Mater. Vses. Konf., 2nd (1972), Meeting Date 1971, Volume 2, 11-12. Editor(s): Usol'tseva, V. A. Publisher: Ivanov. Gos. Med. Inst., Ivanova, USSR. CODEN: 29LJA7

DT Conference

LA Russian

AB In the liver tissue of rabbits with exptl. rheumatic disease the content of NAD and NADH was decreased, and the amt. of NADP and unesterified fatty acids (FA) was increased. In rabbits normal NAD, NADH, NADP, and FA was obsd. after the application of Lofenal and Hisphen, after the application of Imuran the content of FA was increased. In the heart tissue of exptl. animals, FA was increased and returned to normal after Imuran application. NAD and NADH were decreased in the muscle tissue of exptl. rabbits and returned to normal values after immunosuppressors application.

IT 53-59-8 53-84-9

RL: BIOL (Biological study)

(of liver, in rheumatism, immunosuppressant effects on)

RN 53-59-8 HCAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

-NH₂

RN53-84-9 HCAPLUS

CNAdenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

- L9 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- 1974:563493 HCAPLUS AN
- DN 81:163493
- ΤI Preclinical toxicological studies of carbidopa and combinations of carbidopa and levodopa
- AU Zwickey, R. E.; Peck, H. M.; Bagdon, W. J.; Bokelman, D. L.; Brown, W. R.; Hite, M.; Jensen, R. D.; Mattis, P. A.; Mendlowski, B.; et al.
- CS
- Merck Inst. Ther. Res., West Point, Pa., USA Toxicol. Appl. Pharmacol. (1974), 29(2), 181-95 SO CODEN: TXAPA9
- DTJournal
- LΑ English
- AΒ Carbidopa (I) [28860-95-9] given orally at 25-135 mg/kg/day to monkeys for 1 year had no toxic effect, but I given to dogs resulted in pyridoxine [

65-23-6] deficiency. After administration of combinations of I and levodopa [59-92-7], rats exhibited decreased activity, pytalism, and retardation of wt. gain. Salivary gland acinar hypertrophy was also obsd. Increased activity was noted when the combined drugs were given to monkeys for 1 year. No other phys. signs or ophthalmol., hematol., or pathol. changes were obsd. Since I inhibits extracerebral decarboxylase activity, lower doses of levodopa can be used in combination with I in treatment of Parkinsonism with a redn. in side effects.

- L9 ANSWER 27 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1973:473799 HCAPLUS
- DN 79:73799
- TI Role of antivitamins after homoplastic skin transplants
- AU Osetrova, S. Ya.
- CS USSR
- SO K Mekh. Deistviya Vitam. Zhivotn. Rast. Organizmy (1971), 27-9. Editor(s): Titaev, A. A. Publisher: Izd. Mosk. Univ., Moscow, USSR. CODEN: 26YFA5
- DT Conference
- LA Russian
- AB In rats with homoplastic skin transplants, given aminopterin [54-62-6] at 5 .mu.g/day or deoxypyridoxine [61-67-6] at 375 .mu.g/day for 10 days, the lymph node, thymus, and spleen wts. were lower than those in controls. Thus, the antifolate and antivitamin B agents suppressed the body response to homotransplants.
- IT 61-67-6

RL: BIOL (Biological study)

(immunosuppression from, skin homotransplant in relation to)

- RN 61-67-6 HCAPLUS
- CN 3-Pyridinemethanol, 5-hydroxy-4,6-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$$Me$$
 HO
 CH_2-OH
 Me

- L9 ANSWER 28 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1973:52608 HCAPLUS
- DN 78:52608
- TI Pharmacological influence on circulation time in xenogenous renal grafts
- AU Vahlensieck, W.; Bittscheidt, H.; Brueckner, P.; Bruhns, R.; Jaguljujak, M.; Schuemmer, U.; Sobbe, A.; Wessel, W.
- CS Inst. Pathol., Univ. Bonn, Bonn, Ger.
- SO Int. Urol. Nephrol. (1972), 4(3), 265-75 CODEN: IURNAE
- DT Journal
- LA English
- AB Gravity perfusion and the intraarterial injection of heparin [9005-49-6] and immunosuppressive drugs such as xanthinol nicotinate [437-74-1] and azathioprine [446-86-6] into dogs, considerably increased the perfusion time in xenogenous extracorporal perfusion of pig

July 8, 2002

kidneys into the circulation of dogs. However, after circulation was blocked serofibrinous and, later, hemorrhogic inflammation occurred in the perfused kidneys, independent of the drugs given and the perfusion times.

- L9 ANSWER 29 OF 29 HCAPLUS COPYRIGHT 2002 ACS
- AN 1972:135672 HCAPLUS
- DN 76:135672
- TI Role of histidine decarboxylase inhibitors in the suppression of transplant rejection
- AU Moore, Thomas Carleton
- CS Dep. Surg., Los Angeles, Calif., USA
- SO Pharmacol. Treat. Organ Tissue Transplant., Proc. Int. Symp. (1970), Meeting Date 1969, 60-71. Editor(s): Bertelli, Aldo. Publisher: Excerpta Med., Amsterdam, Neth. CODEN: 24MBAL
- DT Conference
- LA English
- The combination of semicarbazide [57-56-7] and a pyridoxine [65-23-6]-deficient diet together with D-2-hydrazino-3-(4-imidazolyl)propionic acid-HCl (I) [34698-33-4] inhibited histidine decarboxylase [9024-61-7] activity at the transplant site of skin allografts, and prolonged the survival of first-set and second-set skin allografts in rats when used during both first- and second-set grafting. The inhibitors also prolonged the survival of canine renal allografts. The enzymic inhibitors suppressed antibody formation involving both 19 S and 7 S antibodies, by rats and mice following stimulation with Salmonella flagellar antigens. This suppression appeared to be due to lymphoid depletion, and a diminution in the capacity of remaining lymphoid cells to produce antibody.
- IT 65-23-6

RL: BIOL (Biological study)

(deficiency of, immunosuppressant activity of histidine decarboxylase inhibitors in)

- RN 65-23-6 HCAPLUS
- CN 3,4-Pyridinedimethanol, 5-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

$$N$$
 Me
 OH
 $CH_2 - OH$